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GALLONAGE TABLES
FOR HORIZONTAL CYLINDRICAL TANKS
WITH FLAT ENDS

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PREFACE

This Circular is designed to meet a considerable demand for tables giving the volume of liquid in filled or partly filled horizontal cylindrical tanks.

The tables herein are arranged so that the volume in any given case can be readily calculated if inside length, diameter, and depth of liquid in the tank are known.

The tables give the volume (in gallons) for a cross section 1 inch in length for tanks of various diameters when filled to various depths (diameters and depths being expressed in inches).

LYMAN J. BRIGGS, *Director*.

GALLONAGE TABLES FOR HORIZONTAL CYLINDRICAL TANKS WITH FLAT ENDS

By Elmer L. Pepper

ABSTRACT

A knowledge of the volume contained in completely and partially filled horizontal cylindrical tanks is of importance wherever liquid is stored and especially in the petroleum oil industry.

The tables, as prepared by the National Bureau of Standards, show the volume, in gallons, of a section 1 inch in length, for tanks of various diameters filled to various depths. The total volume of liquid in a tank filled to a given depth can be obtained by multiplying the tabulated volume per inch in length, for a given diameter of tank and depth of liquid, by the length of the tank, in inches. For example, a tank 120 inches long, 48 inches in diameter (inside measurements), filled to a depth of 18 inches, contains 2.683×120 , or 322 gallons.

Table 1 gives coefficients for calculating the areas of segments of a circle of diameter D having the height h . The area equals the product of the coefficient listed in the table by the square of the diameter.

Table 2 shows the volume of liquid, in gallons, in a section 1 inch in length for horizontal cylindrical tanks of various diameters when filled to various depths. The total volume of liquid in a tank filled to a given depth can be obtained by multiplying the tabulated volume per inch in length, for a given diameter of tank and depth of liquid, by the length of the tank in inches.

By the use of table 1, which gives coefficients for calculating the areas of circular segments, a new table of volume in gallons for various depths may be computed for a tank of any diameter not included in table 2. For example, let it be desired to compute a table for a tank of diameter D equal to 18 inches, and of length L equal to 45 inches. The work may be tabulated as follows:

h	h/D	Coefficient interpo- lated from table 1	Volume in gallons ($\frac{\text{coef} \times D^2 L}{231}$)	Differences
<i>Inches</i>				
1.....	0. 055556	0. 017166	1. 083	1. 083
2.....	. 111111	. 047703	3. 011	1. 928
3.....	. 166667	. 086042	5. 431	2. 420
4.....	. 222222	. 129958	8. 203	2. 772
5.....	. 277778	. 178027	11. 237	3. 034
6.....	. 333333	. 229172	14. 465	3. 228
7.....	. 388889	. 282510	17. 831	3. 366
8.....	. 444444	. 337258	21. 287	3. 456
9.....	. 500000	. 392699	24. 786	3. 499
10.....			28. 285	3. 499
11.....			31. 741	3. 456
12.....			35. 107	3. 366
13.....			38. 335	3. 228
14.....			41. 369	3. 034
15.....			44. 141	2. 772
16.....			46. 561	2. 420
17.....			48. 489	1. 928
18.....			49. 572	1. 083

The second half of the table is completed by successively adding the differences in the first half of the table in reverse order.

TABLE 1.—Coefficients for calculating areas of circular segments

[Area=coefficient $\times D^2$]

h/D	Coefficient	h/D	Coefficient	h/D	Coefficient	h/D	Coefficient	h/D	Coefficient
0.001	0.000042	0.051	0.015119	0.101	0.041477	0.151	0.074590	0.201	0.112625
.002	.000119	.052	.015561	.102	.042081	.152	.075307	.202	.113427
.003	.000219	.053	.016008	.103	.042687	.153	.076026	.203	.114231
.004	.000337	.054	.016458	.104	.043296	.154	.076747	.204	.115036
.005	.000471	.055	.016912	.105	.043908	.155	.077470	.205	.115842
.006	.000619	.056	.017369	.106	.044523	.156	.078194	.206	.116651
.007	.000779	.057	.017831	.107	.045140	.157	.078921	.207	.117460
.008	.000952	.058	.018297	.108	.045759	.158	.079650	.208	.118271
.009	.001135	.059	.018766	.109	.046381	.159	.080380	.209	.119084
.010	.001329	.060	.019239	.110	.047006	.160	.081112	.210	.119898
.011	.001533	.061	.019716	.111	.047633	.161	.081847	.211	.120713
.012	.001746	.062	.020197	.112	.048262	.162	.082582	.212	.121530
.013	.001969	.063	.020681	.113	.048894	.163	.083320	.213	.122348
.014	.002199	.064	.021168	.114	.049529	.164	.084060	.214	.123167
.015	.002438	.065	.021660	.115	.050165	.165	.084801	.215	.123988
.016	.002685	.066	.022155	.116	.050805	.166	.085545	.216	.124811
.017	.002940	.067	.022653	.117	.051446	.167	.086290	.217	.125634
.018	.003202	.068	.023155	.118	.052090	.168	.087037	.218	.126459
.019	.003472	.069	.023660	.119	.052737	.169	.087785	.219	.127286
.020	.003749	.070	.024168	.120	.053385	.170	.088536	.220	.128114
.021	.004032	.071	.024680	.121	.054037	.171	.089288	.221	.128943
.022	.004322	.072	.025196	.122	.054690	.172	.090042	.222	.129773
.023	.004619	.073	.025714	.123	.055346	.173	.090797	.223	.130605
.024	.004922	.074	.026236	.124	.056004	.174	.091555	.224	.131438
.025	.005231	.075	.026761	.125	.056664	.175	.092314	.225	.132273
.026	.005546	.076	.027290	.126	.057327	.176	.093074	.226	.133109
.027	.005867	.077	.027821	.127	.057991	.177	.093837	.227	.133946
.028	.006194	.078	.028356	.128	.058658	.178	.094601	.228	.134784
.029	.006527	.079	.028894	.129	.059328	.179	.095367	.229	.135624
.030	.006866	.080	.029435	.130	.059999	.180	.096135	.230	.136465
.031	.007209	.081	.029979	.131	.060673	.181	.096904	.231	.137307
.032	.007559	.082	.030526	.132	.061349	.182	.097675	.232	.138151
.033	.007913	.083	.031077	.133	.062027	.183	.098447	.233	.138996
.034	.008273	.084	.031630	.134	.062707	.184	.099221	.234	.139842
.035	.008638	.085	.032186	.135	.063389	.185	.099997	.235	.140689
.036	.009008	.086	.032746	.136	.064074	.186	.100775	.236	.141538
.037	.009383	.087	.033308	.137	.064761	.187	.101554	.237	.142388
.038	.009763	.088	.033873	.138	.065449	.188	.102334	.238	.143239
.039	.010148	.089	.034441	.139	.066140	.189	.103116	.239	.144091
.040	.010538	.090	.035012	.140	.066833	.190	.103900	.240	.144945
.041	.010932	.091	.035586	.141	.067528	.191	.104686	.241	.145800
.042	.011331	.092	.036162	.142	.068225	.192	.105473	.242	.146656
.043	.011734	.093	.036742	.143	.068924	.193	.106261	.243	.147513
.044	.012142	.094	.037324	.144	.069626	.194	.107051	.244	.148371
.045	.012555	.095	.037909	.145	.070329	.195	.107843	.245	.149231
.046	.012971	.096	.038497	.146	.071034	.196	.108636	.246	.150091
.047	.013393	.097	.039087	.147	.071741	.197	.109431	.247	.150953
.048	.013818	.098	.039681	.148	.072450	.198	.110227	.248	.151816
.049	.014248	.099	.040277	.149	.073162	.199	.111025	.249	.152681
.050	.014681	.100	.040875	.150	.073875	.200	.111824	.250	.153546

TABLE 1.—Coefficients for calculating areas of circular segments—Continued

[Area=coefficient $\times D^2$]

<i>h/D</i>	Coefficient	<i>h/D</i>	Coefficient	<i>h/D</i>	Coefficient	<i>h/D</i>	Coefficient	<i>h/D</i>	Coefficient
0.251	0.154413	0.301	0.199085	0.351	0.245935	0.401	0.294350	0.451	0.343778
.252	.155251	.302	.200003	.352	.246890	.402	.295330	.452	.344773
.253	.156149	.303	.200922	.353	.247845	.403	.296311	.453	.345768
.254	.157019	.304	.201841	.354	.248801	.404	.297292	.454	.346764
.255	.157891	.305	.202762	.355	.249753	.405	.298274	.455	.347760
.256	.158763	.306	.203683	.356	.250715	.406	.299256	.456	.348756
.257	.159636	.307	.204605	.357	.251673	.407	.300235	.457	.349752
.258	.160511	.308	.205528	.358	.252632	.408	.301221	.458	.350749
.259	.161386	.309	.206452	.359	.253591	.409	.302204	.459	.351745
.260	.162263	.310	.207376	.360	.254551	.410	.303187	.460	.352742
.261	.163141	.311	.208302	.361	.255511	.411	.304171	.461	.353739
.262	.164020	.312	.209228	.362	.256472	.412	.305156	.462	.354736
.263	.164900	.313	.210155	.363	.257433	.413	.306140	.463	.355733
.264	.165781	.314	.211083	.364	.258395	.414	.307125	.464	.356730
.265	.166663	.315	.212011	.365	.259358	.415	.308110	.465	.357728
.266	.167546	.316	.212941	.366	.260321	.416	.309096	.466	.358725
.267	.168431	.317	.213871	.367	.261285	.417	.310082	.467	.359723
.268	.169316	.318	.214802	.368	.262249	.418	.311068	.468	.360721
.269	.170202	.319	.215734	.369	.263214	.419	.312055	.469	.361719
.270	.171090	.320	.216666	.370	.264179	.420	.313042	.470	.362717
.271	.171978	.321	.217600	.371	.265145	.421	.314029	.471	.363715
.272	.172868	.322	.218534	.372	.266111	.422	.315017	.472	.364714
.273	.173758	.323	.219469	.373	.267078	.423	.316005	.473	.365712
.274	.174650	.324	.220404	.374	.268046	.424	.316993	.474	.366711
.275	.175542	.325	.221341	.375	.269014	.425	.317981	.475	.367709
.276	.176436	.326	.222278	.376	.269982	.426	.318970	.476	.368708
.277	.177330	.327	.223216	.377	.270951	.427	.319959	.477	.369707
.278	.178226	.328	.224154	.378	.271921	.428	.320949	.478	.370706
.279	.179122	.329	.225094	.379	.272891	.429	.321938	.479	.371705
.280	.180020	.330	.226034	.380	.273861	.430	.322928	.480	.372704
.281	.180918	.331	.226974	.381	.274832	.431	.323919	.481	.373704
.282	.181818	.332	.227916	.382	.275804	.432	.324909	.482	.374703
.283	.182718	.333	.228858	.383	.276776	.433	.325900	.483	.375702
.284	.183619	.334	.229801	.384	.277748	.434	.326891	.484	.376702
.285	.184522	.335	.230745	.385	.278721	.435	.327883	.485	.377701
.286	.185425	.336	.231689	.386	.279695	.436	.328874	.486	.378701
.287	.186329	.337	.232634	.387	.280669	.437	.329866	.487	.379701
.288	.187235	.338	.233580	.388	.281643	.438	.330858	.488	.380700
.289	.188141	.339	.234526	.389	.282618	.439	.331851	.489	.381700
.290	.189048	.340	.235473	.390	.283593	.440	.332843	.490	.382700
.291	.189956	.341	.236421	.391	.284569	.441	.333836	.491	.383699
.292	.190865	.342	.237369	.392	.285545	.442	.334829	.492	.384699
.293	.191774	.343	.238319	.393	.286521	.443	.335823	.493	.385699
.294	.192685	.344	.239268	.394	.287499	.444	.336816	.494	.386699
.295	.193597	.345	.240219	.395	.288476	.445	.337810	.495	.387699
.296	.194509	.346	.241170	.396	.289454	.446	.338804	.496	.388699
.297	.195423	.347	.242122	.397	.290432	.447	.339799	.497	.389699
.298	.196337	.348	.243074	.398	.291411	.448	.340793	.498	.390699
.299	.197252	.349	.244027	.399	.292390	.449	.341788	.499	.391699
.300	.198168	.350	.244981	.400	.293370	.450	.342783	.500	.392699

TABLE 2.—Capacity table for horizontal tanks (per inch of length)

[illegible]

TABLE 2.—Capacity table for horizontal tanks (per inch of length)—Continued

Depth	DIAMETER IN INCHES									
	40	42	44	46	48	50	52	54	56	58
<i>in.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>
1	0.036	0.037	0.038	0.039	0.040	0.041	0.041	0.042	0.043	0.044
2	.102	.104	.107	.109	.112	.114	.116	.118	.121	.123
3	.185	.190	.195	.199	.204	.208	.212	.217	.221	.225
4	.283	.291	.298	.305	.312	.319	.325	.332	.338	.344
5	.392	.403	.413	.423	.433	.442	.452	.461	.470	.479
6	.512	.526	.539	.552	.565	.578	.590	.602	.614	.626
7	.639	.657	.674	.691	.707	.723	.739	.754	.769	.784
8	.775	.796	.817	.838	.858	.878	.897	.916	.934	.952
9	.916	.942	.968	.993	1.017	1.040	1.064	1.086	1.108	1.130
10	1.064	1.094	1.125	1.154	1.182	1.210	1.237	1.264	1.290	1.316
11	1.216	1.252	1.287	1.321	1.354	1.387	1.418	1.449	1.479	1.509
12	1.373	1.414	1.454	1.493	1.531	1.569	1.605	1.641	1.675	1.709
13	1.533	1.580	1.626	1.670	1.714	1.756	1.797	1.838	1.877	1.916
14	1.697	1.750	1.802	1.852	1.901	1.948	1.995	2.040	2.085	2.128
15	1.863	1.923	1.981	2.037	2.091	2.145	2.197	2.247	2.297	2.345
16	2.032	2.098	2.163	2.225	2.286	2.345	2.403	2.459	2.514	2.568
17	2.202	2.276	2.347	2.416	2.483	2.548	2.612	2.674	2.735	2.794
18	2.374	2.455	2.534	2.609	2.683	2.755	2.825	2.893	2.960	3.025
19	2.547	2.636	2.722	2.805	2.885	2.964	3.040	3.115	3.188	3.259
20	2.720	2.817	2.911	3.002	3.089	3.175	3.258	3.339	3.419	3.496
21	2.893	2.999	3.101	3.199	3.295	3.388	3.478	3.565	3.652	3.736
22	3.066	3.181	3.291	3.398	3.502	3.602	3.700	3.795	3.888	3.978
23	3.238	3.362	3.482	3.597	3.709	3.818	3.923	4.026	4.126	4.223
24	3.408	3.542	3.672	3.796	3.917	4.034	4.147	4.257	4.365	4.470
25	3.577	3.722	3.851	3.995	4.125	4.250	4.372	4.490	4.605	4.718
26	3.743	3.899	4.049	4.193	4.332	4.466	4.597	4.723	4.847	4.967
27	3.907	4.075	4.235	4.390	4.539	4.682	4.822	4.957	5.089	5.217
28	4.067	4.248	4.420	4.585	4.744	4.898	5.047	5.191	5.331	5.468
29	4.224	4.417	4.602	4.778	4.948	5.112	5.271	5.424	5.574	5.719
30	4.376	4.584	4.781	4.969	5.150	5.325	5.494	5.657	5.816	5.970
31	4.524	4.746	4.956	5.158	5.350	5.536	5.715	5.889	6.057	6.221
32	4.665	4.903	5.128	5.343	5.548	5.745	5.935	6.119	6.298	6.471
33	4.801	5.055	5.296	5.524	5.742	5.952	6.153	6.348	6.537	6.720
34	4.928	5.201	5.458	5.701	5.933	6.155	6.369	6.575	6.775	6.968
35	5.048	5.341	5.615	5.873	6.120	6.355	6.582	6.800	7.010	7.214
36	5.157	5.472	5.765	6.041	6.302	6.552	6.791	7.021	7.244	7.459
37	5.255	5.595	5.908	6.202	6.479	6.744	6.997	7.240	7.475	7.702
38	5.338	5.707	6.043	6.356	6.651	6.931	7.199	7.456	7.703	7.942
39	5.404	5.807	6.169	6.503	6.817	7.113	7.396	7.667	7.928	8.179
40	5.440	5.893	6.285	6.642	6.975	7.290	7.589	7.874	8.149	8.413
41	5.560	6.060	6.488	6.871	7.226	7.560	7.875	8.175	8.460	8.730
42	5.668	6.198	6.656	7.079	7.462	7.826	8.175	8.505	8.815	9.105
43	5.765	6.325	6.813	7.276	7.689	8.082	8.455	8.810	9.145	9.460
44	5.852	6.442	6.960	7.474	7.917	8.340	8.745	9.135	9.505	9.855
45	5.928	6.548	7.106	7.660	8.143	8.606	9.050	9.475	9.885	10.275
46	6.000	6.650	7.238	7.832	8.355	8.858	9.340	9.800	10.240	10.660
47	6.068	6.758	7.376	7.990	8.543	9.086	9.600	10.090	10.560	11.010
48	6.132	6.862	7.510	8.164	8.757	9.340	9.900	10.440	10.960	11.460
49	6.192	6.962	7.640	8.324	8.957	9.580	10.180	10.760	11.320	11.860
50	6.248	7.068	7.776	8.490	9.163	9.830	10.480	11.110	11.720	12.310
51	6.300	7.160	7.896	8.640	9.363	10.080	10.780	11.460	12.130	12.790
52	6.348	7.258	8.024	8.796	9.565	10.320	11.060	11.780	12.490	13.190
53	6.392	7.342	8.136	8.928	9.730	10.520	11.300	12.060	12.810	13.550
54	6.432	7.392	8.204	9.016	9.840	10.660	11.480	12.280	13.070	13.850
55	6.468	7.448	8.264	9.084	9.936	10.780	11.640	12.480	13.300	14.110
56	6.500	7.500	8.344	9.176	10.040	10.920	11.800	12.680	13.540	14.390
57	6.528	7.552	8.408	9.248	10.112	11.020	11.940	12.860	13.760	14.650
58	6.552	7.592	8.456	9.304	10.176	11.100	12.040	12.980	13.900	14.810

TABLE 2.—Capacity table for horizontal tanks (per inch of length)—Continued

Depth	DIAMETER IN INCHES									
	60	62	64	66	68	70	72	74	76	78
in.	gal.	gal.	gal.	gal.	gal.	gal.	gal.	gal.	gal.	gal.
1	0.044	0.045	0.046	0.047	0.047	0.048	0.049	0.049	0.050	0.051
2	.125	.127	.129	.131	.133	.135	.137	.139	.141	.143
3	.229	.233	.237	.240	.244	.248	.251	.255	.258	.262
4	.350	.356	.362	.368	.374	.380	.385	.391	.396	.401
5	.487	.496	.504	.512	.520	.528	.536	.544	.551	.559
6	.637	.648	.659	.670	.681	.691	.702	.712	.722	.732
7	.798	.813	.827	.840	.854	.867	.880	.893	.906	.918
8	.970	.988	1.005	1.022	1.038	1.054	1.071	1.086	1.102	1.117
9	1.151	1.172	1.193	1.213	1.233	1.252	1.272	1.291	1.309	1.328
10	1.341	1.366	1.390	1.414	1.437	1.460	1.483	1.505	1.527	1.549
11	1.538	1.567	1.595	1.623	1.650	1.676	1.703	1.728	1.754	1.779
12	1.743	1.775	1.808	1.839	1.870	1.901	1.931	1.960	1.990	2.018
13	1.954	1.991	2.027	2.063	2.098	2.133	2.167	2.201	2.234	2.266
14	2.171	2.212	2.253	2.294	2.333	2.372	2.410	2.448	2.485	2.522
15	2.393	2.440	2.485	2.530	2.574	2.618	2.660	2.702	2.744	2.784
16	2.620	2.672	2.723	2.772	2.821	2.869	2.916	2.963	3.009	3.054
17	2.852	2.909	2.965	3.020	3.074	3.126	3.178	3.230	3.280	3.330
18	3.088	3.151	3.212	3.272	3.331	3.389	3.446	3.502	3.557	3.611
19	3.328	3.396	3.463	3.529	3.593	3.656	3.718	3.779	3.839	3.898
20	3.572	3.646	3.718	3.789	3.859	3.928	3.995	4.061	4.127	4.191
21	3.818	3.898	3.977	4.054	4.129	4.204	4.277	4.348	4.419	4.488
22	4.067	4.254	4.238	4.322	4.403	4.483	4.562	4.639	4.715	4.790
23	4.318	4.412	4.503	4.592	4.680	4.766	4.851	4.934	5.015	5.096
24	4.572	4.672	4.770	4.866	4.960	5.052	5.143	5.232	5.320	5.406
25	4.827	4.935	5.039	5.142	5.243	5.341	5.438	5.534	5.627	5.719
26	5.084	5.199	5.311	5.420	5.528	5.633	5.736	5.838	5.938	6.036
27	5.342	5.464	5.584	5.700	5.815	5.927	6.037	6.145	6.251	6.356
28	5.601	5.731	5.858	5.982	6.104	6.223	6.340	6.455	6.568	6.678
29	5.860	5.998	6.133	6.265	6.394	6.521	6.645	6.767	6.886	7.004
30	6.120	6.266	6.409	6.549	6.686	6.820	6.951	7.080	7.207	7.331
31	6.380	6.535	6.686	6.834	6.979	7.121	7.259	7.396	7.529	7.661
32	6.639	6.803	6.963	7.119	7.272	7.422	7.569	7.712	7.853	7.992
33	6.898	7.071	7.240	7.405	7.566	7.724	7.879	8.030	8.179	8.325
34	7.156	7.339	7.517	7.691	7.861	8.027	8.190	8.349	8.506	8.659
35	7.413	7.605	7.793	7.976	8.155	8.330	8.501	8.669	8.833	8.994
36	7.668	7.871	8.068	8.261	8.449	8.633	8.813	8.989	9.161	9.331
37	7.921	8.135	8.343	8.545	8.743	8.936	9.124	9.309	9.490	9.668
38	8.173	8.398	8.616	8.828	9.036	9.238	9.436	9.629	9.819	10.005
39	8.422	8.658	8.887	9.110	9.327	9.539	9.747	9.950	10.148	10.343
40	8.668	8.916	9.156	9.390	9.618	9.840	10.057	10.269	10.477	10.680

TABLE 2.—Capacity table for horizontal tanks (per inch of length)—Continued

[illegible]

TABLE 2.—Capacity table for horizontal tanks (per inch of length)—Continued

Depth	DIAMETER IN INCHES									
	80	82	84	86	88	90	92	94	96	98
<i>in.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>
1	0.051	0.052	0.053	0.053	0.054	0.055	0.055	0.056	0.056	0.057
2	.145	.147	.149	.150	.152	.154	.156	.157	.159	.161
3	.265	.269	.272	.275	.278	.282	.285	.288	.291	.294
4	.407	.412	.417	.422	.427	.432	.437	.442	.447	.451
5	.566	.574	.581	.588	.595	.602	.609	.616	.622	.629
6	.741	.751	.761	.770	.779	.789	.798	.806	.815	.824
7	.931	.943	.955	.967	.978	.990	1.002	1.013	1.024	1.035
8	1.132	1.147	1.162	1.177	1.191	1.205	1.220	1.233	1.247	1.261
9	1.346	1.364	1.382	1.399	1.416	1.433	1.450	1.467	1.483	1.500
10	1.570	1.591	1.612	1.632	1.653	1.673	1.693	1.712	1.731	1.751
11	1.804	1.828	1.852	1.876	1.900	1.923	1.946	1.968	1.991	2.013
12	2.047	2.075	2.102	2.129	2.156	2.183	2.209	2.235	2.261	2.286
13	2.298	2.330	2.361	2.392	2.422	2.452	2.482	2.511	2.540	2.569
14	2.558	2.593	2.628	2.663	2.697	2.731	2.764	2.797	2.829	2.861
15	2.824	2.864	2.903	2.942	2.980	3.017	3.054	3.091	3.127	3.163
16	3.098	3.142	3.185	3.228	3.270	3.311	3.352	3.393	3.433	3.472
17	3.378	3.427	3.474	3.521	3.567	3.613	3.658	3.702	3.746	3.790
18	3.665	3.717	3.769	3.821	3.871	3.921	3.970	4.019	4.067	4.115
19	3.957	4.014	4.071	4.127	4.182	4.236	4.290	4.343	4.395	4.447
20	4.254	4.316	4.378	4.438	4.498	4.557	4.615	4.673	4.729	4.785
21	4.556	4.624	4.690	4.756	4.820	4.884	4.947	5.009	5.070	5.131
22	4.864	4.936	5.008	5.078	5.147	5.216	5.284	5.350	5.416	5.482
23	5.175	5.253	5.330	5.405	5.480	5.553	5.626	5.698	5.768	5.838
24	5.490	5.574	5.656	5.737	5.817	5.896	5.973	6.050	6.126	6.201
25	5.810	5.899	5.987	6.073	6.158	6.243	6.326	6.407	6.488	6.568
26	6.132	6.227	6.321	6.413	6.504	6.594	6.682	6.769	6.855	6.940
27	6.458	6.559	6.659	6.757	6.854	6.949	7.043	7.135	7.227	7.317
28	6.787	6.895	7.000	7.104	7.207	7.308	7.407	7.506	7.603	7.698
29	7.119	7.233	7.345	7.455	7.563	7.670	7.776	7.880	7.982	8.084
30	7.453	7.573	7.692	7.808	7.923	8.036	8.147	8.257	8.366	8.473
31	7.790	7.917	8.041	8.164	8.285	8.405	8.522	8.638	8.753	8.866
32	8.128	8.262	8.393	8.523	8.651	8.776	8.900	9.022	9.143	9.262
33	8.468	8.609	8.748	8.884	9.018	9.151	9.281	9.410	9.536	9.661
34	8.810	8.958	9.104	9.247	9.388	9.527	9.664	9.799	9.933	10.064
35	9.153	9.309	9.462	9.612	9.760	9.906	10.050	10.192	10.331	10.469
36	9.497	9.660	9.821	9.979	10.134	10.287	10.438	10.586	10.733	10.877
37	9.842	10.013	10.181	10.347	10.509	10.670	10.827	10.983	11.136	11.287
38	10.188	10.367	10.543	10.716	10.886	11.054	11.219	11.381	11.542	11.700
39	10.534	10.721	10.905	11.086	11.264	11.439	11.612	11.782	11.949	12.114
40	10.880	11.076	11.268	11.457	11.643	11.826	12.006	12.183	12.358	12.530
41	11.226	11.431	11.632	11.829	12.023	12.214	12.401	12.586	12.768	12.948
42	11.572	11.786	11.995	12.201	12.403	12.602	12.798	12.990	13.180	13.367
43	11.918	12.140	12.359	12.573	12.784	12.991	13.195	13.395	13.593	13.788
44	12.263	12.495	12.722	12.945	13.165	13.380	13.592	13.801	14.007	14.209
45	12.607	12.848	13.085	13.318	13.546	13.770	13.991	14.207	14.421	14.632
46	12.950	13.201	13.448	13.689	13.926	14.160	14.389	14.614	14.836	15.055
47	13.292	13.553	13.809	14.060	14.307	14.549	14.787	15.021	15.252	15.479
48	13.632	13.904	14.170	14.430	14.686	14.938	15.185	15.428	15.667	15.903
49	13.970	14.252	14.529	14.800	15.065	15.326	15.583	15.835	16.083	16.327
50	14.307	14.600	14.887	15.168	15.443	15.714	15.980	16.241	16.498	16.751

TABLE 2.—Capacity table for horizontal tanks (per inch of length)—Continued

Depth	DIAMETER IN INCHES									
	80	82	84	86	88	90	92	94	96	98
<i>in.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>
14.641	14.641	14.945	15.243	15.534	15.820	16.101	16.376	16.647	16.913	17.175
14.973	14.973	15.288	15.597	15.899	16.196	16.486	16.772	17.052	17.328	17.599
15.302	15.302	15.629	15.949	16.262	16.569	16.870	17.166	17.456	17.741	18.022
15.628	15.628	15.967	16.299	16.623	16.941	17.253	17.559	17.859	18.154	18.444
15.950	15.950	16.302	16.646	16.982	17.311	17.634	17.950	18.261	18.566	18.866
16.270	16.270	16.634	16.990	17.338	17.679	18.013	18.340	18.661	18.976	19.286
16.585	16.585	16.963	17.331	17.692	18.044	18.389	18.728	19.060	19.385	19.706
16.896	16.896	17.288	17.669	18.042	18.407	18.764	19.113	19.456	19.793	20.123
17.203	17.203	17.609	18.004	18.389	18.766	19.135	19.496	19.851	20.198	20.540
17.506	17.506	17.925	18.334	18.733	19.123	19.504	19.877	20.243	20.602	20.954
17.803	17.803	18.238	18.661	19.073	19.476	19.870	20.255	20.633	21.003	21.366
18.095	18.095	18.545	18.983	19.409	19.826	20.232	20.630	21.020	21.402	21.776
18.382	18.382	18.847	19.300	19.741	20.171	20.591	21.002	21.404	21.798	22.184
18.662	18.662	19.144	19.613	20.068	20.513	20.946	21.370	21.785	22.191	22.590
18.936	18.936	19.435	19.920	20.391	20.850	21.297	21.735	22.163	22.582	22.992
19.202	19.202	19.720	20.221	20.708	21.182	21.644	22.096	22.537	22.968	23.391
19.462	19.462	19.998	20.516	21.020	21.509	21.987	22.452	22.907	23.352	23.788
19.713	19.713	20.268	20.805	21.326	21.831	22.324	22.804	23.273	23.732	24.181
19.956	19.956	20.532	21.087	21.625	22.148	22.656	23.151	23.635	24.107	24.570
20.190	20.190	20.787	21.362	21.919	22.458	22.983	23.494	23.992	24.479	24.955
20.414	20.414	21.033	21.629	22.205	22.762	23.304	23.831	24.344	24.846	25.336
20.627	20.627	21.271	21.888	22.484	23.060	23.619	24.162	24.692	25.208	25.713
20.829	20.829	21.498	22.138	22.754	23.350	23.927	24.488	25.034	25.566	26.085
21.019	21.019	21.714	22.379	23.017	23.633	24.229	24.807	25.370	25.918	26.453
21.194	21.194	21.919	22.609	23.270	23.907	24.523	25.120	25.700	26.264	26.815
21.353	21.353	22.110	22.828	23.514	24.173	24.809	25.425	26.023	26.605	27.172
21.495	21.495	22.288	23.035	23.747	24.430	25.088	25.723	26.340	26.939	27.523
21.615	21.615	22.450	23.230	23.970	24.677	25.357	26.014	26.649	27.267	27.868
21.709	21.709	22.593	23.410	24.180	24.913	25.617	26.295	26.952	27.588	28.207
21.760	21.760	22.715	23.573	24.376	25.138	25.867	26.568	27.246	27.902	28.539
21.862	21.862	22.809	23.718	24.558	25.351	26.107	26.832	27.531	28.207	28.864
21.938	21.938	22.862	23.842	24.724	25.550	26.335	27.085	27.808	28.505	29.181
22.000	22.000	22.938	23.938	24.871	25.735	26.550	27.327	28.074	28.794	29.491
22.052	22.052	23.990	24.996	25.902	26.751	27.558	28.330	29.074	29.792	30.491
22.104	22.104	24.042	25.053	26.003	26.851	27.666	28.437	29.179	29.897	30.605
22.156	22.156	24.094	25.105	26.055	26.903	27.718	28.489	29.231	29.949	30.657
22.208	22.208	24.146	25.157	26.107	26.955	27.770	28.541	29.283	29.999	30.709
22.260	22.260	24.198	25.209	26.159	27.007	27.822	28.593	29.335	30.051	30.761
22.312	22.312	24.250	25.261	26.211	27.059	27.874	28.645	29.387	30.103	30.813
22.364	22.364	24.302	25.313	26.263	27.111	27.926	28.697	29.439	30.155	30.865
22.416	22.416	24.354	25.365	26.315	27.163	27.978	28.749	29.491	30.207	30.917
22.468	22.468	24.406	25.417	26.367	27.215	28.030	28.801	29.543	30.259	30.969
22.520	22.520	24.458	25.469	26.419	27.267	28.082	28.853	29.595	30.311	31.021
22.572	22.572	24.510	25.521	26.471	27.319	28.134	28.905	29.647	30.363	31.073
22.624	22.624	24.562	25.573	26.523	27.371	28.186	28.957	29.699	30.415	31.125
22.676	22.676	24.614	25.625	26.575	27.423	28.238	29.009	29.751	30.467	31.177
22.728	22.728	24.666	25.677	26.627	27.475	28.290	29.061	29.803	30.519	31.229
22.780	22.780	24.718	25.729	26.679	27.527	28.342	29.113	29.855	30.571	31.281
22.832	22.832	24.770	25.781	26.731	27.579	28.394	29.165	29.907	30.623	31.333
22.884	22.884	24.822	25.833	26.783	27.631	28.446	29.217	29.959	30.675	31.385
22.936	22.936	24.874	25.885	26.835	27.683	28.498	29.269	30.011	30.727	31.437
22.988	22.988	24.926	25.937	26.887	27.735	28.550	29.321	30.063	30.779	31.489
23.040	23.040	24.978	25.989	26.939	27.787	28.602	29.373	30.115	30.831	31.541
23.092	23.092	25.030	26.041	27.000	27.839	28.654	29.425	30.167	30.883	31.593
23.144	23.144	25.082	26.093	27.052	27.891	28.706	29.477	30.219	30.935	31.645
23.196	23.196	25.134	26.145	27.104	27.943	28.758	29.529	30.271	30.987	31.697
23.248	23.248	25.186	26.197	27.156	27.995	28.810	29.581	30.323	31.039	31.749
23.300	23.300	25.238	26.249	27.208	28.047	28.862	29.633	30.375	31.091	31.801
23.352	23.352	25.290	26.301	27.260	28.100	28.914	29.685	30.427	31.143	31.853
23.404	23.404	25.342	26.353	27.312	28.152	28.966	29.737	30.479	31.195	31.905
23.456	23.456	25.394	26.405	27.364	28.204	29.018	29.789	30.531	31.247	31.957
23.508	23.508	25.446	26.457	27.416	28.256	29.070	29.841	30.583	31.299	32.009
23.560	23.560	25.498	26.509	27.468	28.308	29.122	29.893	30.635	31.351	32.061
23.612	23.612	25.550	26.561	27.520	28.360	29.174	29.945	30.687	31.403	32.113
23.664	23.664	25.602	26.613	27.572	28.412	29.226	29.997	30.739	31.455	32.165
23.716	23.716	25.654	26.665	27.624	28.464	29.278	30.049	30.791	31.507	32.217
23.768	23.768	25.706	26.717	27.676	28.516	29.330	30.101	30.843	31.559	32.269
23.820	23.820	25.758	26.769	27.728	28.568	29.382	30.153	30.895	31.611	32.321
23.872	23.872	25.810	26.821	27.780	28.620	29.434	30.205	30.947	31.663	32.373
23.924	23.924	25.862	26.873	27.832	28.672	29.486	30.257	30.999	31.715	32.425
23.976	23.976	25.914	26.925	27.884	28.724	29.538	30.309	31.051	31.767	32.477
24.028	24.028	25.966	26.977	27.936	28.776	29.590	30.361	31.103	31.819	32.529
24.080	24.080	26.018	27.029	28.000	28.828	29.642	30.413	31.155	31.871	32.581
24.132	24.132	26.070	27.081	28.052	28.880	29.694	30.465	31.207	31.923	32.633
24.184	24.184	26.122	27.133	28.104	28.932	29.746	30.517	31.259	31.975	32.685
24.236	24.236	26.174	27.185	28.156	28.984	29.798	30.569	31.311	32.027	32.737
24.288	24.288	26.226	27.237	28.208	29.036	29.850	30.621	31.363	32.079	32.789
24.340	24.340	26.278	27.289	28.260	29.088	29.902	30.673	31.415	32.131	32.841
24.392	24.392	26.330	27.341	28.312	29.140	29.954	30.725	31.467	32.183	32.893
24.444	24.444	26.382	27.393	28.364	29.192	30.006	30.777	31.519	32.235	32.945
24.496	24.496	26.434	27.445	28.416	29.244	30.058	30.829	31.571	32.287	32.997
24.548	24.548	26.486	27.497	28.468	29.296	30.110	30.881	31.623	32.339	33.049
24.600	24.600	26.538	27.549	28.520	29.348	30.162	30.933	31.675	32.391	33.101
24.652	24.652	26.590	27.601	28.572	29.400	30.214	30.985	31.727	32.443	33.153
24.704	24.704	26.642	27.653	28.624	29.452	30.266	31.037	31.779	32.495	33.205
24.756	24.756	26.694	27.705	28.676	29.504	30.318	31.089	31.831	32.547	33.257
24.808	24.808	26.746	27.757	28.728	29.556	30.370	31.141	31.883	32.599	33.309
24.860	24.860	26.798	27.809	28.780	29.608	30.422	31.193	31.935	32.651	33.361
24.912	24.912	26.850	27.861	28.832	29.660	30.474	31.245	31.987	32.703	33.413
24.964	24.964	26.902	27.913	28.884	29.712	30.526	31.297	32.039	32.755	33.465
25.016	25.016	26.954	27.965	28.936	29.764	30.578	31.349	32.091	32.807	33.517
25.068	25.068	27.006	28.017	29.000	29.816	30.630	31.401	32.143	32.859	33.569
25.120	25.120	27.058	28.069	29.052	29.868	30.682	31.453	32.195	32.911	33.621
25.172	25.172	27.110	28.121	29.104	29.920	30.734	31.505	32.247	32.963	33.673
25.224	25.224	27.162	28.173	29.156	29.972	30.786	31.			

TABLE 2.—Capacity table for horizontal tanks (per inch of length)—Continued

Depth	DIAMETER IN INCHES													
	100	104	108	112	116	120	124	128	132	136	140	144	148	
<i>in.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	<i>gal.</i>	
1.....	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.069	0.070	
2.....	.162	.166	.169	.172	.175	.178	.181	.184	.187	.190	.192	.195	.197	
3.....	.297	.303	.309	.315	.320	.326	.332	.337	.342	.347	.353	.358	.363	
4.....	.456	.465	.474	.483	.492	.501	.509	.517	.526	.534	.542	.549	.556	
5.....	.636	.649	.661	.674	.686	.698	.710	.721	.733	.744	.755	.766	.777	
6.....	.833	.850	.867	.883	.899	.915	.931	.946	.961	.976	.991	1.005	1.019	
7.....	1.046	1.068	1.089	1.110	1.130	1.150	1.170	1.189	1.208	1.227	1.246	1.264	1.282	
8.....	1.274	1.301	1.327	1.352	1.377	1.402	1.426	1.450	1.473	1.496	1.519	1.541	1.563	
9.....	1.516	1.547	1.578	1.609	1.639	1.668	1.697	1.725	1.753	1.781	1.808	1.835	1.861	
10.....	1.769	1.807	1.843	1.879	1.914	1.949	1.983	2.016	2.049	2.081	2.113	2.144	2.174	
11.....	2.035	2.078	2.120	2.162	2.202	2.242	2.282	2.320	2.358	2.395	2.432	2.468	2.503	
12.....	2.311	2.360	2.409	2.456	2.502	2.548	2.593	2.637	2.680	2.723	2.765	2.806	2.845	
13.....	2.597	2.653	2.708	2.761	2.814	2.865	2.916	2.966	3.015	3.063	3.110	3.157	3.202	
14.....	2.893	2.956	3.017	3.077	3.136	3.194	3.250	3.306	3.361	3.415	3.468	3.520	3.570	
15.....	3.198	3.268	3.336	3.403	3.468	3.532	3.595	3.657	3.718	3.778	3.838	3.896	3.951	
16.....	3.511	3.588	3.664	3.737	3.810	3.881	3.950	4.019	4.086	4.153	4.218	4.282	4.343	
17.....	3.833	3.917	4.000	4.081	4.161	4.239	4.315	4.390	4.464	4.537	4.609	4.679	4.747	
18.....	4.162	4.254	4.345	4.433	4.520	4.605	4.689	4.771	4.852	4.931	5.010	5.087	5.161	
19.....	4.498	4.598	4.697	4.793	4.888	4.980	5.071	5.161	5.249	5.335	5.420	5.504	5.585	
20.....	4.841	4.950	5.056	5.161	5.263	5.364	5.462	5.559	5.654	5.748	5.840	5.930	6.019	
21.....	5.190	5.308	5.423	5.536	5.646	5.755	5.861	5.965	6.068	6.169	6.268	6.366	6.461	
22.....	5.546	5.673	5.797	5.918	6.037	6.153	6.267	6.380	6.490	6.598	6.705	6.810	6.913	
23.....	5.908	6.043	6.176	6.306	6.434	6.559	6.681	6.801	6.920	7.036	7.150	7.263	7.373	
24.....	6.275	6.420	6.562	6.701	6.837	6.971	7.102	7.231	7.357	7.481	7.603	7.724	7.843	
25.....	6.647	6.802	6.954	7.102	7.247	7.390	7.529	7.667	7.801	7.934	8.064	8.192	8.318	
26.....	7.024	7.189	7.351	7.509	7.663	7.815	7.963	8.109	8.252	8.393	8.532	8.668	8.801	
27.....	7.406	7.582	7.753	7.921	8.085	8.246	8.403	8.558	8.710	8.860	9.007	9.151	9.292	
28.....	7.793	7.979	8.160	8.338	8.512	8.682	8.849	9.013	9.174	9.332	9.488	9.641	9.791	
29.....	8.184	8.380	8.573	8.760	8.944	9.124	9.301	9.474	9.645	9.812	9.976	10.138	10.297	
30.....	8.579	8.786	8.989	9.187	9.382	9.572	9.758	9.941	10.121	10.297	10.470	10.641	10.809	
31.....	8.977	9.196	9.410	9.619	9.824	10.024	10.220	10.413	10.602	10.788	10.971	11.150	11.326	
32.....	9.379	9.610	9.835	10.055	10.270	10.481	10.688	10.890	11.089	11.285	11.477	11.666	11.851	
33.....	9.785	10.027	10.264	10.495	10.721	10.943	11.160	11.373	11.582	11.787	11.989	12.187	12.381	
34.....	10.194	10.448	10.696	10.939	11.177	11.409	11.637	11.860	12.079	12.294	12.506	12.714	12.918	
35.....	10.605	10.872	11.132	11.387	11.636	11.879	12.118	12.352	12.581	12.807	13.028	13.246	13.459	
36.....	11.020	11.299	11.572	11.838	12.098	12.353	12.603	12.848	13.088	13.324	13.555	13.783	14.006	
37.....	11.436	11.729	12.014	12.293	12.565	12.831	13.092	13.348	13.599	13.846	14.088	14.326	14.559	
38.....	11.855	12.161	12.459	12.750	13.035	13.313	13.585	13.853	14.115	14.372	14.624	14.873	15.117	
39.....	12.277	12.596	12.907	13.211	13.507	13.798	14.082	14.361	14.634	14.902	15.166	15.425	15.678	
40.....	12.700	13.033	13.357	13.674	13.983	14.286	14.582	14.873	15.157	15.437	15.711	15.981	16.245	
41.....	13.125	13.472	13.810	14.140	14.462	14.777	15.086	15.388	15.684	15.975	16.261	16.541	16.815	
42.....	13.552	13.913	14.265	14.608	14.944	15.271	15.592	15.907	16.215	16.517	16.814	17.106	17.392	
43.....	13.980	14.356	14.722	15.079	15.428	15.768	16.102	16.429	16.749	17.063	17.372	17.675	17.972	
44.....	14.409	14.800	15.180	15.551	15.914	16.268	16.614	16.954	17.286	17.612	17.933	18.247	18.555	
45.....	14.839	15.245	15.641	16.026	16.402	16.770	17.129	17.481	17.826	18.165	18.497	18.823	19.144	
46.....	15.270	15.692	16.102	16.502	16.892	17.274	17.647	18.012	18.370	18.720	19.065	19.403	19.734	
47.....	15.702	16.140	16.565	16.980	17.385	17.780	18.166	18.545	18.915	19.279	19.636	19.986	20.329	
48.....	16.134	16.588	17.029	17.459	17.878	18.288	18.688	19.080	19.464	19.840	20.209	20.572	20.929	
49.....	16.567	17.037	17.494	17.940	18.374	18.798	19.212	19.618	20.015	20.404	20.786	21.161	21.529	
50.....	17.000	17.487	17.960	18.421	18.871	19.309	19.738	20.157	20.568	20.971	21.366	21.753	22.131	
51.....	17.433	17.937	18.427	18.904	19.369	19.822	20.265	20.699	21.124	21.540	21.948	22.348	22.739	
52.....	17.866	18.387	18.894	19.387	19.868	20.336	20.795	21.243	21.681	22.111	22.532	22.946	23.351	
53.....	18.298	18.837	19.361	19.871	20.367	20.852	21.325	21.788	22.240	22.684	23.119	23.546	23.964	
54.....	18.730	19.287	19.829	20.355	20.868	21.368	21.857	22.334	22.802	23.259	23.708	24.148	24.578	
55.....	19.161	19.737	20.296	20.840	21.369	21.886	22.390	22.882	23.364	23.836	24.299	24.753	25.197	
56.....	19.591	20.186	20.763	21.325	21.871	22.404	22.923	23.431	23.928	24.415	24.892	25.360	25.818	
57.....	20.020	20.635	21.230	21.810	22.373	22.922	23.458	23.982	24.494	24.995	25.487	25.969	26.441	
58.....	20.448	21.082	21.697	22.294	22.875	23.441	23.993	24.533	25.061	25.577	26.083	26.579	27.064	
59.....	20.875	21.529	22.163	22.779	23.377	23.960	24.529	25.085	25.628	26.160	26.681	27.191	27.689	
60.....	21.300	21.975	22.628	23.263	23.879	24.480	25.066	25.638	26.197	26.744	27.280	27.805	28.319	
61.....	21.723	22.419	23.092	23.746	24.381	24.999	25.602	26.191	26.766	27.329	27.880	28.421	28.951	
62.....	22.144	22.861	23.555	24.228	24.882	25.519	26.139	26.745	27.336	27.915	28.482	29.037	29.581	
63.....	22.564	23.302	24.017	24.710	25.383	26.038	26.676	27.299	27.907	28.502	29.085	29.655	30.213	
64.....	22.980	23.741	24.477	25.190	25.883	26.556	27.213	27.853	28.478	29.089	29.688	30.274	30.847	
65.....	23.395	24.178	24.936	25.669	26.382	27.074	27.749	28.407	29.049	29.677	30.292	30.894	31.484	
66.....	23.806	24.613	25.392	26.147	26.880	27.592	28.285	28.961	29.621	30.266	30.897	31.515	32.119	
67.....	24.215	25.046	25.847	26.624	27.376	28.108	28.820	29.515	30.192	30.854	31.502	32.137	32.758	
68.....	24.620	25.475	26.300	27.098	27.872	28.623	29.355	30.068	30.763	31.443	32.108	32.759	33.396	
69.....	25.023	25.902	26.750	27.571	28.366	29.138	29.889	30.620	31.334	32.032	32.714	33.382	34.036	
70.....	25.421	26.326	27.198	28.041	28.858	29.651	30.422	31.173	31.905	32.620	33.320	34.005	34.675	
71.....	25.816	26.747	27.643	28.510	29.348	30.162	30.953	31.724	32.475	33.209	33.926	34.628	35.315	
72.....	26.207	27.164	28.086	28.975	29.837	30.672	31.484	32.274	33.045	33.797	34.532	35.251	35.954	
73.....	26.593	27.578	28.525	29.439	30.323	31.180	32.013	32.823	33.613	34.384	35.138	35.874	36.593	
74.....	26.976	27.983	28.961	29.899	30.807	31.686	32.540	33.371	34.181	34.971	35.743	36.498	37.237	
75.....	27.353	28.394	29.393	30.357	31.288	32.190	33.066	33.918	34.748	35.557	36.348	37.121	37.877	

TABLE 2.—Capacity table for horizontal tanks (per inch of length)—Continued

DIAMETER IN INCHES													
	100	104	108	112	116	120	124	128	132	136	140	144	148
	gal.	gal.	gal.	gal.	gal.	gal.	gal.	gal.	gal.	gal.	gal.	gal.	gal.
27.725	28.795	29.822	30.811	31.767	32.692	33.590	34.463	35.313	36.142	36.952	37.743	38.518	39.275
28.092	29.193	30.247	31.263	32.243	33.191	34.112	35.006	35.877	36.726	37.555	38.365	39.158	39.935
28.454	29.585	30.668	31.710	32.716	33.688	34.632	35.548	36.440	37.309	38.158	38.987	39.798	40.590
28.810	29.972	31.085	32.154	33.185	34.183	35.149	36.088	37.001	37.891	38.759	39.608	40.438	41.248
29.159	30.354	31.497	32.594	33.652	34.674	35.664	36.625	37.560	38.471	39.360	40.228	41.077	41.906
29.502	30.731	31.904	33.030	34.115	35.162	36.176	37.161	38.118	39.050	39.959	40.847	41.715	42.563
29.838	31.102	32.307	33.462	34.574	35.647	36.686	37.694	38.673	39.627	40.557	41.465	42.352	43.218
30.167	31.466	32.704	33.889	35.029	36.129	37.192	38.224	39.226	40.202	41.153	42.081	42.989	43.876
30.489	31.824	33.095	34.311	35.480	36.607	37.696	38.752	39.777	40.775	41.748	42.697	43.624	44.530
30.802	32.176	33.481	34.729	35.927	37.081	38.196	39.277	40.326	41.347	42.341	43.311	44.258	45.183
31.107	32.520	33.861	35.141	36.369	37.551	38.693	39.799	40.872	41.915	42.932	43.923	44.891	45.836
31.403	32.857	34.234	35.548	36.806	38.017	39.186	40.317	41.415	42.482	43.521	44.534	45.523	46.488
31.689	33.186	34.601	35.948	37.238	38.479	39.675	40.833	41.955	43.046	44.108	45.142	46.153	47.139
31.965	33.507	34.961	36.343	37.665	38.936	40.161	41.345	42.492	43.607	44.692	45.749	46.781	47.789
32.230	33.819	35.313	36.732	38.087	39.388	40.642	41.853	43.026	44.166	45.274	46.354	47.407	48.435
32.484	34.121	35.657	37.114	38.503	39.835	41.118	42.357	43.557	44.721	45.854	46.956	48.032	49.083
32.726	34.414	35.994	37.489	38.913	40.278	41.590	42.858	44.084	45.274	46.430	47.556	48.654	49.725
32.954	34.696	36.322	37.856	39.317	40.714	42.058	43.354	44.607	45.823	47.004	48.154	49.275	50.368
33.167	34.968	36.640	38.216	39.714	41.145	42.520	43.846	45.127	46.369	47.575	48.749	49.893	50.998
33.364	35.227	36.950	38.568	40.104	41.570	42.977	44.333	45.642	46.911	48.143	49.341	50.508	51.645
33.544	35.474	37.249	38.912	40.487	41.989	43.429	44.815	46.154	47.449	48.703	49.930	51.121	52.279
33.703	35.706	37.537	39.247	40.863	42.401	43.875	45.292	46.660	47.984	49.268	50.516	51.732	52.915
33.838	35.924	37.814	39.572	41.290	42.807	44.315	45.764	47.162	48.514	49.826	51.099	52.339	53.539
33.942	36.126	38.079	39.888	41.590	43.205	44.749	46.231	47.660	49.041	50.379	51.679	52.944	54.177
34.000	36.309	38.331	40.194	41.941	43.596	45.176	46.692	48.152	49.561	50.929	52.255	53.545	54.815
	36.471	38.568	40.488	42.282	43.980	45.597	47.147	48.639	50.080	51.474	52.828	54.144	55.414
	36.609	38.791	40.770	42.614	44.355	46.011	47.596	49.121	50.592	52.015	53.396	54.738	56.039
	36.716	38.996	41.040	42.936	44.721	46.417	48.039	49.597	51.099	52.552	53.961	55.330	56.671
	36.774	39.183	41.297	43.248	45.079	46.816	48.475	50.067	51.601	53.084	54.521	55.917	57.285
		39.348	41.540	43.548	45.428	47.207	48.904	50.531	52.098	53.612	55.078	56.501	57.880
		39.489	41.766	43.836	45.766	47.589	49.326	50.989	52.589	54.134	55.629	57.081	58.495
		39.598	41.976	44.111	46.094	47.963	49.740	51.440	53.075	54.651	56.177	57.656	59.080
		39.657	42.166	44.373	46.412	48.328	50.147	51.885	53.554	55.163	56.719	58.228	59.696
			42.335	44.620	46.718	48.683	50.545	52.322	54.027	55.669	57.256	58.794	60.289
			42.478	44.851	47.011	49.028	50.934	52.751	54.493	56.169	57.788	59.356	60.882
				42.589	45.064	47.292	49.362	51.315	53.173	54.953	56.664	58.315	59.914
				42.649	45.258	47.558	49.685	51.686	53.587	55.405	57.152	58.836	60.466
					45.430	47.810	49.997	52.048	53.993	55.850	57.633	59.352	61.013
					45.575	48.045	50.296	52.399	54.390	56.288	58.108	59.861	61.615
					45.688	48.262	50.581	52.740	54.777	56.717	58.576	60.364	62.091
					45.750	48.459	50.852	53.069	55.155	57.139	59.036	60.861	62.622
						48.634	51.108	53.385	55.523	57.551	59.489	61.351	63.146
						48.782	51.347	53.690	55.880	57.955	59.935	61.834	63.664
						48.897	51.568	53.980	56.227	58.349	60.372	62.810	64.176
						48.960	51.769	54.256	56.561	58.734	60.800	62.779	64.682
							51.947	54.516	56.883	59.108	61.220	63.239	65.180
							52.097	54.759	57.193	59.471	61.630	63.692	65.671
							52.214	54.984	57.488	59.823	62.031	64.136	66.155
							52.278	55.188	57.768	60.163	62.422	64.572	66.631
								55.369	58.033	60.491	62.802	64.999	67.100
								55.522	58.280	60.805	63.172	65.416	67.560
								55.640	58.509	61.105	63.529	65.823	68.011
								55.705	58.716	61.390	63.875	66.220	68.454
									58.899	61.659	64.208	66.607	68.887
									59.055	61.910	64.527	66.982	69.311
									59.175	62.142	64.832	67.345	69.725
									59.241	62.353	65.121	67.696	70.128
										62.599	65.394	68.034	70.520
										62.697	65.649	68.358	70.901
										62.819	65.885	68.667	71.270
											66.098	68.961	71.627
											66.287	69.238	71.970
											66.447	69.497	72.298
											66.572	69.736	72.612
											66.640	69.953	72.911
												70.145	73.192
												70.307	73.454
												70.433	73.696
												70.522	73.916
													74.111
													74.276
													74.403
													74.507

